Navajo Abandoned Uranium Mine

Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits, pits and waste piles. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands that may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, and record all immediate site information associated with the mine site. Decisions and recommendations on what additional steps are needed will be provided on a separate document.

Mine Name: Casey No. 3
Mine ID: 373

Navajo AUM Western Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

20074.063.017.0020

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Part I	Site Identification, Location and Status					
Site Names and ID numbers as applicable						
Mine ID:	373					
Map ID:	W28					
CERCLIS:	NNN000909232					
Navajo Abandoned Mine Land Reclamation Program: None						
Local name / Aliases: Casey #3						
Chapter and local area: Coalmine Mesa						
County: Coco	onino	State: Arizon	a			
Lat/Long: 35.9264218151 N / -111.414579127 W						
Nearby road	and highway:	US-89	Local Post Off	ice: Cameron	ı, AZ	
Surface Land Status: check one or more and provide ownership and contact information below						
Tribal Trust I Private Bureau of La State			Public lands Tribal Fee Lan Allotment Fee land	ıd		
Subsurface Mineral Rights:						
No information on subsurface mineral rights ownership was found in the EPA/AUM Database.						

Claim and operator information:

The mine surface land status is classified as Tribal Trust Land. Historical documents identified the operator of the mine as Kaibab Uranium Corporation in 1957. No additional historical ownership / lease information was identified in the EPA / AUM database.

Number of residential structures within 200 feet of mine: None

Part II Summary of Radiological Readings

Mine ID: 373

Highest gamma radiation measurement: 16,818 counts per minute (cpm)

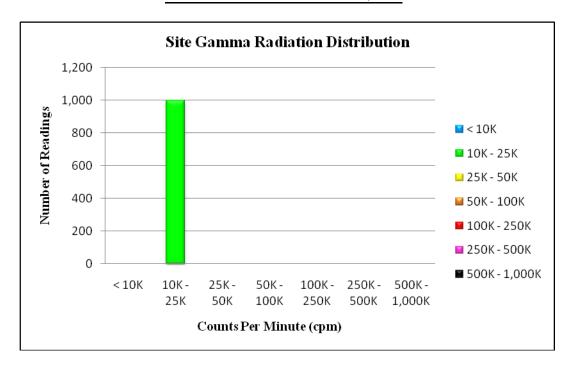
Background Average: 11,212 cpm **Two Times Background:** 22,424 cpm

Describe any other radiological measurements:

A total of 998 gamma radiation measurements were collected from the mine site, ranging from 10,169 cpm to 16,818 cpm. The measurements are represented in Figures 1 and 2.

Distribution Chart and Statistics:

Site Gamma Radiation Statistics				
Number of Readings	998			
Minimum (cpm)	10,169			
Maximum (cpm)	16,818			
Mean (cpm)	13,008			
Median (cpm)	12,910			
Standard Deviation	1,081			



Part III Status of Reclamation and Mine Waste

Mine ID: 373

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed: No Waste Pile onsite: No

NAMLRP Project Number: None

NAMLRP Mine features: 1 Rim Strip / Pit

The following information was obtained from field observations collected during the 2011 site screening:

Provide description and status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.

Observed reclamation work and status:

Adits:

None observed

Waste Piles:

None observed

Pits:

None observed

Shafts:

None observed

Other Debris and Mine Features:

None observed

Part IV Site Observations and Environs

Observed Residential Structures (number and human habitation status of structures at the following distances from the mine site):

0 to 200 feet: None observed

200 feet to 0.25 mile: House compound 0.25 mi SE of site

Observed Public or Commercial Structures (schools, clinics, Chapter Houses, places of business and any other structures used by members of the community at the following distances from the mine site):

0 to 200 feet: None observed

200 feet to 0.25 mile: None observed

Levels measured around the perimeter(s) of the identified structure(s):

Background levels

Observed Water Sources (number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine site):

0 to 0.25 miles: Seasonal tributary to Little Colorado River approximately 1000 ft SW of site

0.25 miles to 4 miles: Little Colorado River approximately 3 mi SE of site

Sensitive Environments (all sensitive environments located within visible range of the mine site, including: wetlands, endangered species, habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation):

None observed

Known Site History (information from interviews with Chapter officials and residents and database review, includes: mine ownership, type of mining operation, period of operation, known amount of production, and any other information provided):

The Casey No. 3 mine claim consists of an area of 11,657.88 m². The mine was identified as being operational in 1957. While operational, the mine had a total reported production volume of 17 tons. The mine surface land status is classified as Tribal Trust Land. Historical documents identified the operator of the mine as Kaibab Uranium Corporation in 1957. No additional historical ownership / lease information was identified in the EPA / AUM database.

Part V Response Action Summary

Summary of Evaluation Factors:

Accessibility:

Was the mine easily accessible to potential human activity? Yes

Radiological Measurements:

Were any gamma radiation measurements collected at the mine greater than two times the site-specific background levels?

No

Waste Piles:

Were any unreclaimed waste piles observed at the mine with gamma radiation measurements greater than two times the site-specific background levels? No

Structures:

Were any structures observed within 200 feet of the mine? No

Potential Drinking Water Sources:

Were any potential drinking water sources observed within 4 miles of the mine? Yes

Reclamation:

Was the mine reported to be previously reclaimed, or did the mine appear to be reclaimed?

No

Part VI Photos



Photo 1: Mine Site #373



Photo 2: Mine Site #373



Photo 3: Mine Site #373; Nearby houses

Part VII Contacts Reports and Information

Name:	Eugene Esplain		
Title or official role (if any):	Navajo EPA Superfund Program		
Telephone number:	(928) 871-7331		
Address:	PO Box 2946, Window Rock, AZ 86515		
Information provided:	Lead Regulatory Agency		
Name			
Name:			
Title or official role (if any):			
Telephone number:			
Address:			
Information provided:			
Name:			
Title or official role (if any):			
Telephone number:			
Address:			
Information provided:			

Figure 1 - Gamma Radiation Measurements, Above Two Times Background
Casey No. 3 (373)
Coalmine Mesa Chapter, Navajo Nation

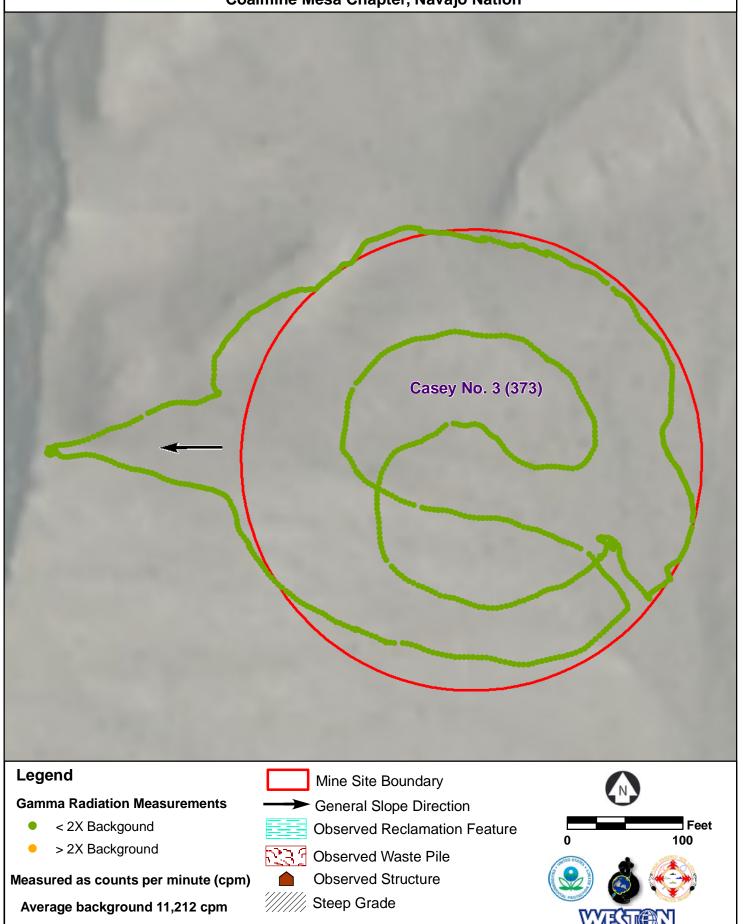


Figure 2 - Gamma Radiation Measurements Casey No. 3 (373) Coalmine Mesa Chapter, Navajo Nation



Gamma Radiation Measurements

- 0 10,000 cpm
- 10,000 25,000 cpm
- 25,000 50,000 cpm
- 50,000 100,000 cpm
- 100,000 250,000 cpm
- 250,000 500,000 cpm
- 500,000 1,000,000 cpm



General Slope Direction

